

Features

- Complementary to MPSA42
- Halogen Free Available Upon Request By Adding Suffix "-HF" •
- Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating ٠
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS • Compliant. See Ordering Information)

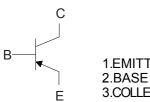
Maximum Ratings @ 25°C Unless Otherwise Specified

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 200°C/W Junction to Ambient
- Thermal Resistance: 83.3°C/W Junction to Case

| Parame | Symbol | Rating | Unit | |
|------------------------------|-----------------------------|------------------|------|-------|
| Collector-Base Volt | V _{CBO} | -300 | V | |
| Collector-Emitter Voltage | | V_{CEO} | -300 | V |
| Emitter-Base Voltage | | V_{EBO} | -5 | V |
| Continuous Collector Current | | Ι _C | -300 | mA |
| Power Dissipation | T _A =25°C,Derate | | 625 | mW |
| | above 25°C | Pp | 5 | mW/°C |
| | T _C =25°C,Derate | ГD | 1.5 | W |
| | above 25°C | | 12 | mW/°C |

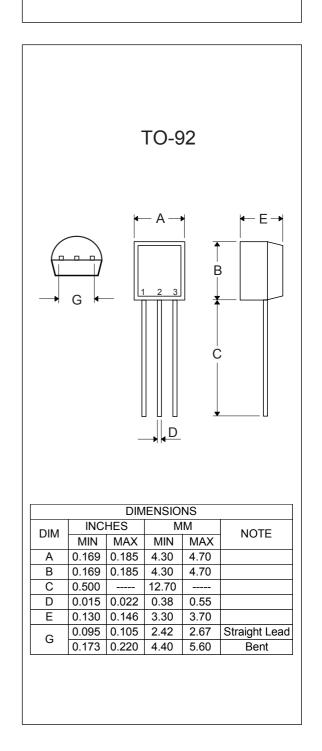
Marking:A92

Internal Structure



1.EMITTER 3.COLLECTOR

PNP Silicon High Voltage Transistor





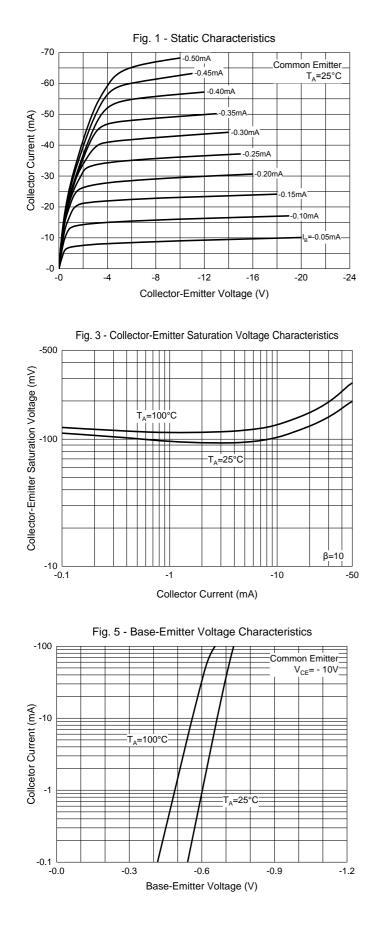
Electrical Characteristics @ $T_A \!\!=\! 25^\circ C$ Unless Otherwise Specified

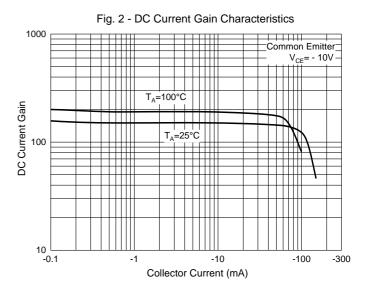
| Parameter | Symbol | Min | Тур | Max | Units | Conditions |
|---------------------------------------|----------------------|------|-----|-------|-------|------------------------------------------------------|
| Collector-Base Breakdown Voltage | V _{(BR)CBO} | -300 | | | V | I _C =-100μA, I _E =0 |
| Collector-Emitter Breakdown Voltage* | V _{(BR)CEO} | -300 | | | V | I _C =-1mA, I _B =0 |
| Emitter-Base Breakdown Voltage | V _{(BR)EBO} | -5 | | | V | I _E =-10μA, I _C =0 |
| Collector Cut-off Current | I _{CBO} | | | -0.25 | μA | V _{CB} =-200V, I _E =0 |
| Emitter Cut-off Current | I _{EBO} | | | -0.25 | μA | V _{EB} =-3V, I _C =0 |
| DC Current Gain* | h _{FE(1)} | 25 | | | | V _{CE} =-10V, I _C =-1mA |
| | h _{FE(2)} | 80 | | 250 | | V _{CE} =-10V, I _C =-10mA |
| | h _{FE(3)} | 25 | | | | V _{CE} =-10V, I _C =-50mA |
| Collector-Emitter Saturation Voltage* | V _{CE(sat)} | | | -0.5 | V | I _C =-20mA, I _B =-2mA |
| Base-Emitter Saturation Voltage* | V _{BE(sat)} | | | -0.9 | V | I _C =-20mA, I _B =-2mA |
| Transition Frequency | f _T | 50 | | | MHz | V _{CE} =-5V, I _C =-10mA, f=30MHz |
| Collector Output Capacitance | C _{ob} | | | 6 | pF | V_{CB} =-20V, I _E =0,f=1MHz |

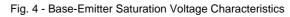
*.Pulse test: Pulse Width≤300µs,Duty Cycle≤2.0%.

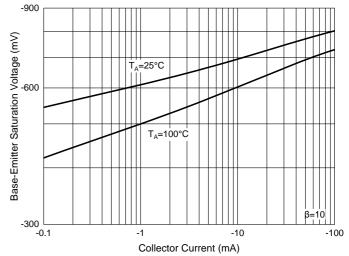


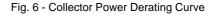
Curve Characteristics

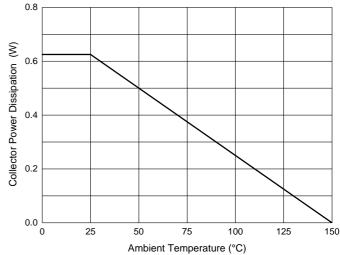














Ordering Information

| Device | Packing | | |
|----------------|-----------------------------|--|--|
| Part Number-AP | Ammo Packing: 20Kpcs/Carton | | |
| Part Number-BP | Bulk: 100Kpcs/Carton | | |

Note : Adding "-HF" Suffix for Halogen Free, eg. Part Number-TP-HF

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